ELSEVIER

AUTHOR INDEX

A

Abe T. *See* Lüdecke DK
Abood CJ. *Pediatric Trauma: Initial Care of the Injured Child,* 197-br
Acikgöz B. *See* Tekkök IH
Adelstein EH. *See* Perez-Espejo M-A
Aguzzi A. *See* Ogata N
Ahmad I. *See* Imaizumi S
Alabedeen Z, Jamjoon B. Acute spontaneous spinal epidural hematoma: the influence of magnetic resonance imaging on diagnosis and treatment, 345
Alakija P. *See* Auer RN
Aletich VA. *See* Debrun GM
Alexander E Jr
  Back to the roots of modern neurosurgery: neurosurgical pioneers in Halle an der Saale, 168-com
  How to write a manuscript, 169
  Pediatric Cerebrovascular Disorders, 2nd ED., 196-br
  Retirement: what to do?, 591
Ali Raja I. Health care concerns worldwide, 4
Alp MS
  See Dujovny M
  See Misra M
Andermann F. *See* Clarke DB
Anderson DE. *See* Origitano TC
Antoni E. *See* D'Andrea V
Aoki N, Oikawa A, Sakai T. Hair-braiding closure for superficial wounds, 150
Arbit E. Primary spinal epidural non-Hodgkin's lymphomas: a clinical study, 344-com
Arita K. *See* Pant B
Artico M. *See* Salvati M
Auer RN, Alakija P, Sutherland GR. Asymptomatic large pituitary adenomas discovered at autopsy, 28
Ausman JI
  All it takes is a few minutes, 102-ed
  CT Angiographic-guided frameless stereotactic-assisted clipping of a distal posterior inferior cerebellar artery aneurysm: technical case report, 454-com
  Editor's note, 2, 19, 23
  54th Annual Meeting of the Japan Neurosurgical Society: October 18-20, 1995; Nagoya, Japan, 300
  First Meeting of the International Society of Neurosurgical Instrument Investors, 401
  In this issue, 1-ed, 105-ed, 204-ed, 309-ed, 415-ed
  Indications for carotid endarterectomy, 540-en
  Microsurgical Carotid Endarterectomy, 608-br
  The modified excimer laser-assisted high-flow bypass operation, 429-com
  News form the WFNS education committee, 408
  Reflections on 20 years' experience with cerebral ischemia, 595-rc
  A strategy for your future, 307-ed
  Surgical Neurology on the Internet, 520-en
  See Hoffman WE
  See Misra M
Awad IA. Indications for carotid endarterectomy, 540

B

Badylak SF. *See* Cobb MA
Balancari E. *See* D'Andrea V
Bandoh K. *See* Nakano H
Bao W-M. *See* Xu Q-W
Barnwell SL. Cirsoid aneurysm treatment by percutaneous injection of sodium tetradecyl sulfate, 560-com
Beck RJM. *See* Tulleken CAF
Beek JF. *See* Menovsky T
Benli K. *See* İnci S
Beristain X
  Color Atlas of Pediatric Neurology, 196-br
  Dujovny M, Gaviria M. Xenon/CT quantitative local cerebral blood flow, 437
Bhagwati SN. Health care concerns worldwide, 3
Black KL. Primary cavernous sinus malignant lymphoma treated by gamma knife rediosurgery: case report and review of the literature, 279-com
Bloom DM. *See* Misra M
Bolognini A. *See* Scarfò GB
Boop FA. *See* Cobb MA
Borlongan CV, Freeman TB, Hauser RA, Cahill DW, Sanberg PR. Cyclosporine-A increases locomotor activity in rats with 6-hydroxydopamine-induced hemiparkinsonism: relevance to neural transplantation, 384
Borne G. *See* Roux F-X
Bouillon R. *See* Van Havenbergh T
Bown SG. *See* Menovsky T
Brandt R. Health care concerns worldwide, 5
Breeze RE. *See* Brega KE
Brega KE, Seltzer WK, Munro LG, Breeze RE. Genotypic variations of type III collagen in patients with cerebral aneurysms, 253
Bricolo A. Total removal of a primary intracranial squamous cell carcinoma invading the brain stem, 480-com
Brint SU. Acute stroke therapies, 446
Brock M. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 531-com

© 1996 by Elsevier Science Inc.
655 Avenue of the Americas, New York, NY 10010

0090-3019/96/$15.00
PII S0090-3019(96)00502-5

Brotchi J
Aggressive surgery for intramedullary tumor of cervical spinal cord, 328-com
Intramedullary spinal cord metastasis: report of three cases and review of the literature, 338-com
Intraspinal meningiomas: review of 54 cases with discussion of poor prognosis factors and modern therapeutic management, 464-com
Brunori A, Chiappetta F. Cystic extra-axial cavernoma of the cerebellopontine angle, 475
Burger PC. Primary Ki-1-Positive T-cell lymphoma of the brain—an aggressive subtype of lymphoma: case report and review of the literature, 41-com
Burkert W. *See* Rainov NG

C
Cahill DW. *See* Borlongan CV
Caldarelli M, Di Rocco C. Surgical options in the treatment of interhemispheric arachnoid cysts, 212
Canady A. How would you treat this patient?, 23
Caplan LR. EC-IC bypass 10 years later: is it valuable?, 416
Carbotta S. *See* D'Andrea V
Carey ME. Subdural-peritoneal shunt: treatment for bilateral chronic subdural hematoma, 383-com
Carney AL. "The strike that failed" Canadian physician strike, 1987, 191-le
Cartolari R. *See* Scarfò GB
Castel J-P. *See* Cuny E
Cerullo LJ. Interstitial laser thermotherapy: developments in the treatment of small deep-seated brain tumors, 572-com
Cervoni L. *See* Salvati M
Charbel FT
Pathogenesis of hyponatremia following subarachnoid hemorrhage due to reptured cerebral aneurysm, 508-com
See Hoffman WE
See Misra M
Chiappetta F. *See* Brunori A
Chigasaki H. *See* Yanagawa Y
Chileuitt L, Leber K, McCalden T, Weinstein PR. Induced hypertension during ischemia reduces infarct area after temporary middle cerebral artery occlusion in rats, 229
Chou SN. The need for neurological surgery programs to be departments, 175-com
Ciappeta P. *See* Salvati M
Clarke DB, Olivier A, Andermann F, Fish D. Surgical treatment of epilepsy: the problem of lesion/focus incongruence, 579
Cobb MA, Badylak SF, Janas W, Boop FA. Histology after dural grafting with small intestinal submucosa, 389
Collins WF Jr. The need for neurological surgery programs to be departments, 180-com
Connolly ES Jr, Winfree CJ, McCormick PC, Cruz M, Stein BM. Intramedullary spinal cord metastasis: report of three cases and review of the literature, 329
Couto M-T. *See* Kalangu KKN
Crone KR. *See* Lewis AI
Cruz M. *See* Connolly ES Jr
Cuny E, Loiseau H, Rivel J, Vital C, Castel J-P. Amyloid angiopathy-related cerebellar hemorrhage, 235

D
D'Andrea V, Carbotta S, Balancari E, De Antoni E, Todini AR. Trigeminal neuralgia caused by dolichovertebral artery, 607-le
Davis RA. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 523
Day Al, MacDonald JD. Intracavernous carotid artery aneurysms: the posssible importance of angiographic dural waisting. a case report, 552-com
De Jesús O. Giant aneurysm of the proximal anterior cerebral artery, 553
De León OA. Endoscopic resection of intraventricular ependymal cyst presenting with psychosis, 578-com
de los Reyes RA. Cerebral aneurysm in the HIV patient: a report of six ases, 54-com
de Sousa AA
Indications for carotid endarterectomy, 540
Radical resection of intramedullary spinal cord tumors without cavitron ultrasonic aspirator of CO_2 laser: a "two stage" technique, 315-com
de Villiers JC
A place for neurosurgery in a developing country?, 403-ed
Radical resection of intramedullary spinal cord tumors without cavitron ultrasonic aspirator of CO_2 laser: a "two stage" technique, 316-com
Debrun G
Angiographic workup of a CCF, 193-le
Cirsoid aneurysm treatment by percutaneous injection of sodium tetradecyl sulfate, 557-com
Microsurgical removal of a free segment of microcatheter in the anterior circulation as a complication of embolization, 560-com
Radiosurgery patterns of practice, 605-le
Debrun GM
Aletich VA, Miller NR, DeKeiser RJW. Three cases of spontaneous direct carotid cavernous fistulas associated with Ehlers-Danlos syndrome type IV, 247
See Misra M
Deffrenees D. *See* Merland JJ
DeKeiser RJW. *See* Debrun GM
Delfini R. *See* Salvati M
Delgado-Escueta AV. *See* Swartz BE
Dempsey RJ. *See* Hatton J
DeSalles A. *See* Swartz BE
Devaux B. *See* Roux F-X
Di Rocco C
How would you treat this patient?, 23
See Caldarelli M
Dolan RA. Sensitive carotid sinus, 80
Dom R. *See* Van Havenbergh T
Dorsch NWC. CT Angiographic-guided frameless stereotactic-assisted clipping of a distal posterior inferior cerebellar artery aneurysm: technical case report, 454-com

Dowd CF. Transverse sinus dural fistula: combined surgical and endovascular approach: a case report, 134-com
Dujovny M
Misra M, Alp MS. The Ad-Tech disposable brain biopsy needle, 597
See Beristain X
See Mansour M
Dwan PS. *See* Swartz BE

E
Edelman G. *See* Hoffman WE
Eguchi T. EC-IC bypass 10 years later: is it valuable?, 421
Eisenberg HM. The effects of taxol, methylprednisolone, and 4-aminopyridine in compressive spinal cord injury: a qualitative experimental study, 357-com
El Khamlichi A. Health care concerns worldwide, 8
Eljamel MS. Surgery for cavernous sinus meningiomas, DEC-le
Elsner MD. Formula for success, 602
Endo S, Hirashima Y, Kurimoto M, Kuwayama N, Nishijima M, Takaku A. Acute pathologic features with angiographic correlates of the nearly or completely occluded lesions of the cervical internal carotid artery, 222
Enjoiras O. *See* Merland JJ
Erickson SJ. *See* Hendrix LE

F
Fabi RA. Neurosurgical training, 10
Fabinyi G. The safety and efficacy of chronically implanted subdural electrodes: a prospective study, 93-com
Fernandez E
Pallini R, La Marca F, Lauretti L, Scogna A. Neurosurgery of the peripheral nervous system—Part I: basic anatomic concepts, 47
Scogna A. *Nerve Injuries,* 104-br
Fernandez PM. *Atlas of Spine Surgery,* 195-br
Fichtel F. *See* Horowitz M
Field EM
Indications for carotid endarterectomy, DEC
Sensitive carotid sinus, 83-com
Findlay JM. *See* Megyesi J
Fish D. *See* Clarke DB
Flamm ES. EC-IC bypass 10 years later: is it valuable?, 419
Fournier JY. *See* Ogata N
Freeman TB. *See* Borlongan CV
Fujimaki T. *See* Nakatomi H
Fukushima T. *See* Fuse T
Furuya K. *See* Nakatomi H
Fuse T, Takagi T, Yamada K, Fukushima T. Systemic multiple aneurysms of the intracranial arteries and visceral arteries: case report, 258
Futrell N, Millikan C. EC-IC bypass 10 years later: is it valuable?, 418

G
Gaetani P, Tancioni F, Merlo P, Villani L, Spanu G, Rodriguez y Baena R. Spinal chondroma of the lumbar tract: case report, 534
Gantchev LS. *See* Rainov NG
Gaviria M. *See* Beristain X
George ED. Successful removal of cryptic arteriovenous malformation located at the upper ventral pons via subtemporal transtentorial approach, 121-com
Goffin J. *See* Van Havenbergh T
Gokaslan Z, Sawaya R. Primary spinal epidural non-Hodgkin's lymphomas: a clinical study, 343-com
Goldbrunner R, Warmuth-Metz M, Jörg-Christian T, Vince GH, Roosen K. Primary Ki-1-positive T-cell lymphoma of the brain—an aggressive subtype of lymphoma: case report and review of the literature, 37
Goldfarb RP. Epidural steroids for cervical and lumbar radiculopathy, 457
Golnik KC. *See* Miller NR
Gonzales-Portillo G
Localization of the central sulcus, 98-rc
Sotrel A. How would you treat this patient?, 27-com
Goodman JM
Acute spontaneous spinal epidural hematoma: the influence of magnetic resonance imaging on diagnosis and treatment, 349-com
Kuzma B. Encephalopathy following heart-lung transplantation, 157
Kuzma B. Ossification of the ligamentum flavum with myelopathy, 396
Kuzma B. Recurrent disc *vs.* scar?, 94
Kuzma B. "Sinononasal mass with intracranial extension," 593
See Kuzma B
See Payner TD
Gratzl O. Brain tissue oxygen pressure, carbon dioxide pressure, and pH during hypothermic circulatory arrest, 79-com

H
Haase J. Cerebral revascularization using omentum and serratus anterior muscle free flap transfer for adult moyamoya disease: case report, 435-com
Haddad FS. Why not glove the left hand first?, 515-rc
Haghighi SS. *See* Perez-Espejo M-A
Hahn JF. The need for neurological surgery programs to be departments, 178-com
Håkansson S. Microvascular decompression for trigeminal neuralgia in patients with multiple sclerosis, 362-com
Handa J. *See* Kimura R
Haralampopoulos F, Iliadis H, Karniadakis S, Koutentakis D. Invasion of a peritoneal catheter into the inferior vena cava: report of a unique case, 21
Harbaugh RE. Developing a neurosurgical carotid endarterectomy practice, 545
Hardy J. Asymptomatic large pituitary adenomas discovered at autopsy, 31-com
Hatton J, Lu WY, Rhoney DH, Tibbs PA, Dempsey RJ, Young B. A step-wise protocol for stress ulcer prophylaxis in the neurosurgical intensive care unit, 493

Hauser RA. *See* Borlongan CV
Heifetz MD. Retirement: what to do?, 100
Hekmat-Panah J. Endoscopic resection of intraventricular ependymal cyst presenting with psychosis, 577-com
Hendrix LE, Meyer GA, Erickson SJ. Cirsoid aneurysm treatment by percutaneous injection of sodium tetradecyl sulfate, 557
Herbreteau D. *See* Merland JJ
Heros RC. EC-IC bypass 10 years later: is it valuable?, 419
Hirashima Y. *See* Endo S
Hirohata T. *See* Pant B
Hoff JT. The need for neurological surgery programs to be departments, 179-com
Hoffman HJ
A comparison of children with suprasellar germ cell tumors and craniopharyngiomas: final Height, weight, endocrine, and visual sequelae after treatment, 377-com
Occult intrasacral meningocele associated with spina bifida: a case report, 149-com
Pontine glioma with osteoblastic skeletal metastases in a child, 484-com
Hoffman WE, Charbel FT, Edelman G, Ausman JI. Brain tissue oxygen pressure, carbon dioxide pressure, and pH during hypothermic circulatory arrest, 75
Holland MC, Spetzler RF. Indications for carotid endarterectomy, 540
Honda O. *See* Kurokawa Y
Hongo K. *See* Horiuchi T
Honmou O. *See* Kurokawa Y
Horiuchi T, Osawa M, Itoh N, Kobayashi S, Nitta J, Hongo K. Extradural extension of glioblastoma multiforme into the oral cavity: case report, 42
Horowitz M, Fichtel F, Samson D, Purdy P. Intracavernous carotid artery aneurysms: the posssible importance of angiographic dural waisting. a case report, 549
Hsiang JNK, Zhu XL, Wong LKS, Kay R, Poon WS. Putaminal and thalamic hemorrhage in ethnic Chinese living in Hong Kong, 441
Huang YP. Large diffuse arteriovenous malformation affecting the right cerebral and cerebellar hemispheres: case report, 128-com
Hunt CD. *See* Maniker AH

I
Ichikizaki K. *See* Sagoh M
Igarashi S. *See* Okada T
Iliadis H. *See* Haralampopoulos F
Imae S. *See* Okada T
Imaizumi S, Shimizu H, Ahmad I, Kaminuma T, Tajima M, Yoshimoto T. Effect of calcitonin gene-related peptide on delayed cerebral vasospasm after experimental subarachnoid hemorrhage in rabbits, 263
Imaña R. Posterior retroextramarginal disc hernia (PREMDH): definition, diagnosis, and treatment, 211-com
Inai K. *See* Pant B
İnci S, Özcan OE, Benli K, Saatį I. Microsurgical removal of a free segment of microcatheter in the anterior circulation as a complication of embolization, 562
Inoue HK. *See* Ono N
Inubushi T. *See* Kimura R
Inui T. *See* Yoshioka N
Ishiguro M. *See* Kurokawa Y
Ishihara S. *See* Yanagawa Y
Ito H
See Kato S
See Nishioka H
Ito Y. *See* Nishioka H
Itoh N. *See* Horiuchi T
Izumi C. *See* Sagoh M

J
Jamjoon B. *See* Alabedeen Z
Janas W. *See* Cobb MA
Jannetta PJ. *See* Resnick DK
Jochum W. *See* Ogata N
Jones N. Pneumosinus dilatans: a sign of intracranial meningioma, 474-com
Jörg-Christian T. *See* Goldbrunner R

K
Kalangu KKN
Couto M-T. Radical resection of intramedullary spinal cord tumors without cavitron ultrasonic aspirator or CO_2 laser: a "two stage" technique, 310
Neurosurgery in Zimbabwe, 317
Kaminuma T. *See* Imaizumi S
Karasawa J. *See* Touho H
Karniadakis S. *See* Haralampopoulos F
Kashiwagi S. *See* Kato S
Kato S, Yamasita T, Nomura S, Kashiwagi S, Ito H, Yamashita H. Giant intracranial aneurysms in two sisters: case report, 240
Kato T. *See* Kurokawa Y
Kaufman HH. Amyloid angiopathy-related cerebellar hemorrhage, 239-com
Kaufman MH. *See* Swartz BE
Kawamoto S. *See* Nakatomi H
Kay R. *See* Hsiang JNK
Kikuchi H, Nozaki K. Effect of calcitonin gene-related peptide on delayed cerebral vasospasm after experimental subarachnoid hemorrhage in rabbits, 271-com
Kimura R, Shiino A, Matsuda M, Handa J, Morikawa S, Inubushi T. Acute focal cerebral ischemia in rats studied by diffusion-weighted magnetic resonance imaging—an experimental study, 67
Kindt GW
Giant intracranial aneurysms in two sisters: case report, 246-com
Indications for carotid endarterectomy, 540
A step-wise protocol for stress ulcer prophylaxis in the neurosurgical intensive care unit, 499-com
Kirino T. *See* Nakatomi H
Kobayashi S
Intracavernous carotid artery aneurysms: the posssible importance of angiographic dural waisting. a case report, 552-com
See Horiuchi T
Kodaki K. *See* Sagoh M
Kodama N
Health care concerns worldwide, 9

Sato M, Sasaki T. Treatment of ruptured cerebral aneurysm in moyamoya disease, 62
Koenig GH. Have neurosurgeons lost their chance to operate on spine problems?, 103-le
Kohga H. *See* Ono N
Kolchinsky A
Genotypic variations of type III collagen in patients with cerebral aneurysms, 257-com
What a wrong fold can do: transmissible spongiform encephalopathies, 587
Kondziolka D, Lunsford LD. Microsurgical resection of colloid cysts using a stereotactic transventricular approach, 485
Koot RW. Radical resection of intramedullary spinal cord tumors without cavitron ultrasonic aspirator of CO_2 laser: a "two stage" technique, 314-com
Kopitnik TA Jr, Samson D. Temporal lobe arteriovenous malformations: surgical management and outcome, 115-com
Kotani A. *See* Koyama S
Koutentakis D. *See* Haralampopoulos F
Koyama S, Kotani A, Sasaki J. Spontaneous dissecting aneurysm of the anterior cerebral artery: report of two cases, 55
Koyama T. *See* Okada T
Krivoy S. Health care concerns worldwide, 6
Kumar K, Toth C, Nath RK. Spinal cord stimulation for chronic pain in peripheral neuropathy, 363
Kurimoto M. *See* Endo S
Kurisu K. *See* Pant B
Kurokawa Y, Uede T, Ishiguro M, Honda O, Honmou O, Kato T, Wanibuchi M. Pathogenesis of hyponatremia following subarachnoid hemorrhage due to reptured cerebral aneurysm, 500
Kuwayama N. *See* Endo S
Kuzma B
Goodman JM. Diffuse dural enhancement, 303
See Goodman JM
Kuzma BB
Goodman JM. Paradoxic appearance of calcification on MRI, 513
See Goodman JM

L

La Marca F. *See* Fernandez E
Larson DA. Radiosurgery patterns of practice, 605-le
Lauretti L. *See* Fernandez E
Laws ER Jr. Lymphocytic infundibulohypophysitis presenting in the postpartum period: case report, 284-com
Lawton MT, Spetzler RF. CT Angiographic-guided frameless stereotactic-assisted clipping of a distal posterior inferior cerebellar artery aneurysm: technical case report, 453-com
Leber K. *See* Chileuitt L
Lee KC. *See* Park HC
Lewis AI, Crone KR. Microsurgical resection of colloid cysts using a stereotactic transventricular approach, 492-com
Lluch T. *See* Martínez-Lage JF
Loftus CM
Acute pathologic features with angiographic correlates of the nearly or completely occluded lesions of the cervical internal carotid artery, 228-com
Evaluation of time-dependent thresholds of cerebral blood flow and transit time during the acute stage of cerebral embolism: a retrospective study, 146-com
Loiseau H. *See* Cuny E
Lu WY. *See* Hatton J
Lüdecke DK, Abe T. Two cases of lymphocytic hypophysitis presenting with diabetes insipidus: a variant of lymphocytic infundibulo-neurohypophysitis, 290-com
Lunsford LD
See Kondziolka D
See Resnick DK

M

MacDonald JD. *See* Day AL
Madsen R. *See* Perez-Espejo M-A
Maldonado VDC. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 531-com
Mali WPThM. *See* Tulleken CAF
Malik GM, Seyfried DM, Morgan JK. Temporal lobe arteriovenous malformations: surgical management and outcome, 106
Malis LI
Cerebellopontine-angle lesion, 155
Cystic extra-axial cavernoma of the cerebellopontine angle, 476-com
Maniker AH, Hunt CD. Cerebral aneurysm in the HIV patient: a report of six cases, 49
Mansour M, Dujovny M. *Current Techniques in Neurosurgery, 2nd ed.,* 195-br
Mao R-L. *See* Xu Q-W
Marchosky JA. Interstitial laser thermotherapy: developments in the treatment of small deep-seated brain tumors, 571-com
Mariottini A. *See* Scarfò GB
Martínez-Lage JF, Poza M, Lluch T. Craniosynostosis in neural tube defects: a theory on its pathogenesis, 465
Matsuda M. *See* Kimura R
Matz M. Epidural steroids for cervical and lumbar radiculopathy, 456
McAfee RE. The road less traveled: a conversation with my son, 186
McCalden T. *See* Chileuitt L
McCormick PC. *See* Connolly ES Jr
McLone DG. Craniosynostosis in neural tube defects: a theory on its pathogenesis, 470-com
Meacham WF. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 532-com
Meder J-F. *See* Roux F-X
Megyesi J, Findlay JM. Effect of calcitonin gene-related peptide on delayed cerebral vasospasm after experimental subarachnoid hemorrhage in rabbits, 271-com
Menovsky T, Beek JF, Roux FX, Bown SG. Interstitial laser thermotherapy: developments in the treatment of small deep-seated brain tumors, 568

Merland JJ, Enjoiras O, Herbreteau D, Deffrenees D. Cirsoid aneurysm treatment by percutaneous injection of sodium tetradecyl sulfate, 561-com
Merlo P. *See* Gaetani P
Meyer FB. Indications for carotid endarterectomy, 540
Meyer GA. *See* Hendrix LE
Miller CA. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 533-com
Miller NR
  Golnik KC, Zeidman SM, North RB. Pneumosinus dilatans: a sign of intracranial meningioma, 471
  See Debrun GM
Millikan C. *See* Futrell N
Misra M
  Atlas of Human Cross-Sectional Anatomy, 3rd ed., 194-br
  Nijensohn E, Debrun GM, Charbel FT, Alp MS, Ausman JI. Transverse sinus dural fistula: combined surgical and endovascular approach: a case report, 129
  Salazar JL, Bloom DM. Subdural-peritoneal shunt: treatment for bilateral chronic subdural hematoma, 378
  See Dujovny M
Miyaoka M. *See* Nakano H
Miyazawa T. *See* Yanagawa Y
Mizoi K, Yoshimoto T. Giant aneurysm of the proximal anterior cerebral artery, 556-com
Morgan JK. *See* Malik GM
Mori T. *See* Nagata K
Morikawa S. *See* Kimura R
Munro LG. *See* Brega KE
Muzii VF. *See* Scarfò GB

N

Nagata K, Nikaido H, Mori T. Successful removal of cryptic arteriovenous malformation located at the upper ventral pons via subtemporal transtentorial approach, 116
Nakagawa H. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 530-com
Nakahara T. *See* Pant B
Nakano H, Ohara Y, Bandoh K, Miyaoka M. A case of central pontine myelinolysis after surgical removal of a pituitary tumor, 32
Nakatomi H, Sasaki T, Kawamoto S, Fujimaki T, Furuya K, Kirino T. Primary cavernous sinus malignant lymphoma treated by gamma knife radiosurgery: case report and review of the literature, 272
Nataf F. *See* Roux F-X
Nath RK. *See* Kumar K
Nijensohn E. *See* Misra M
Nikaido H. *See* Nagata K
Nishijima M. *See* Endo S
Nishioka H, Ito H, Sano T, Ito Y. Two cases of lymphocytic hypophysitis presenting with diabetes insipidus: a variant of lymphocytic infundibulo-neurohypophysitis, 285
Nitta J. *See* Horiuchi T
Nomura S. *See* Kato S
North RB. *See* Miller NR
Nozaki K. *See* Kikuchi H

O

Ogata N, Jochum W, Aguzzi A, Fournier JY, Yonekawa Y. Total removal of a primary intracranial squamous cell carcinoma invading the brain stem, 477
Ogilvy CS, Ojemann RG. Indications for carotid endarterectomy, 540
Ohara Y. *See* Nakano H
Ohnishi H. *See* Touho H
Oikawa A. *See* Aoki N
Ojemann RG. *See* Ogilvy CS
Okada T, Imae S, Igarashi S, Koyama T, Yamashita J. Occult intrasacral meningocele associated with spina bifida: a case report, 147
Olivier A. *See* Clarke DB
Ono N, Kohga H, Zama A, Inoue HK, Tamura M. A comparison of children with suprasellar germ cell tumors and craniopharyngiomas: final Height, weight, endocrine, and visual sequelae after treatment, 370
Origitano TC
  Anderson DE. CT Angiographic-guided frameless stereotactic-assisted clipping of a distal posterior inferior cerebellar artery aneurysm: technical case report, 450
  Reichman OH. The need for neurological surgery programs to be departments, 172
Osawa M. *See* Horiuchi T
Ostertag CB. Microsurgical resection of colloid cysts using a stereotactic transventricular approach, 491-com
Özcan OE. *See* İnci S

P

Pallini R. *See* Fernandez E
Pant B, Uozumi T, Hirohata T, Arita K, Kurisu K, Nakahara T, Inai K. Endoscopic resection of intraventricular ependymal cyst presenting with psychosis, 573
Park HC, Lee KC. Intraspinal meningiomas: review of 54 cases with discussion of poor prognosis factors and modern therapeutic management, 464-com
Parkinson D
  Advice to young neurosurgeons, 159
  Angiographic workup of a CCF, 193-le
Patterson RH Jr. Cerebral aneurysm in the HIV patient: a report of six cases, 54-com
Pawl RP
  Epidural steroids for cervical and lumbar radiculopathy, 455
  Spinal cord stimulation for chronic pain in peripheral neuropathy, 369-com
Payner TA. Intraspinal meningiomas: review of 54 cases with discussion of poor prognosis factors and modern therapeutic management, 464-com
Payner TD, Goodman JM. Cerebellopontine-angle lesion, 156
Perez-Espejo M-A, Haghighi SS, Adelstein EH, Madsen R. The effects of taxol, methylprednisolone, and 4-aminopyridine in compressive spinal cord injury: a qualitative experimental study, 350
Peter JC
  Health care concerns worldwide, 7

Surgical options in the treatment of interhemispheric arachnoid cysts, 221-com
Piepgras DG
EC-IC bypass 10 years later: is it valuable?, 417
See Schievink W
Pile-Spellman J. Selective angiography of the vertebral artery in the rabbit: technical note, 86-com
Pinaudeau M. *See* Roux F-X
Plets C. *See* Van Havenbergh T
Pollak R. Histology after dural grafting with small intestinal submucosa, 394-com
Polley JW. Craniosynostosis in neural tube defects: a theory on its pathogenesis, 470-com
Poon WS. *See* Hsiang JNK
Popp AJ
The need for neurological surgery programs to be departments, 179-com
Toselli R. Work force requirements for neurosurgery, 181
Portnoy HD. Update: the new ventriculoperitoneal shunt at the Institute of Neurology of Mexico, 20-com
Post KD. Two cases of lymphocytic hypophysitis presenting with diabetes insipidus: a variant of lymphocytic infundibulo-neurohypophysitis, 291-com
Poza M. *See* Martínez-Lage JF
Purdy P. *See* Horowitz M

Q
Quest DO
EC-IC bypass 10 years later: is it valuable?, 417
Indications for carotid endarterectomy, 540

R
Raco A. *See* Salvati M
Rainov NG, Gantchev LS, Burkert W. Back to the roots of modern neurosurgery: neurosurgical pioneers in Halle an der Saale, 161
Raja IA. Radical resection of intramedullary spinal cord tumors without cavitron ultrasonic aspirator of CO_2 laser: a "two stage" technique, 315-com
Ransohoff J. Retirement: what to do?, 100
Reichman OH. *See* Origitano TC
Resnick DK, Jannetta PJ, Lunsford LD, Bissonette DJ. Microvascular decompression for trigeminal neuralgia in patients with multiple sclerosis, 358
Rhoney DH. *See* Hatton J
Rich JR. *See* Swartz BE
Rivel J. *See* Cuny E
Robberecht W. *See* Van Havenbergh T
Robinson JR Jr, Spetzler RF. Treatment of ruptured cerebral aneurysm in moyamoya disease, 66-com
Rodriguez y Baena R. *See* Gaetani P
Roosen K. *See* Goldbrunner R
Rosomoff HL. Retirement: what to do?, 160
Rossier AB. Cervical central cord syndrome, 606-le
Rothbart D, Spetzler RF. EC-IC bypass 10 years later: is it valuable?, 422
Roux F-X
Nataf F, Pinaudeau M, Borne G, Devaux B, Meder J-F. Intraspinal meningiomas: review of 54 cases with discussion of poor prognosis factors and modern therapeutic management, 458
See Menovsky T

S
Saatį I. *See* İnci S
Sadasivan B. Putaminal and thalamic hemorrhage in ethnic Chinese living in Hong Kong, 445-com
Sagoh M, Kodaki K, Ichikizaki K, Izumi C, Satoh T, Shiga H. Large diffuse arteriovenous malformation affecting the right cerebral and cerebellar hemispheres: case report, 122
Sakai T. *See* Aoki N
Salazar JL. *See* Misra M
Salvati M, Cervoni L, Artico M, Raco A, Ciappeta P, Delfini R. Primary spinal epidural non-Hodgkin's lymphomas: a clinical study, 339
Sambasivan M. Health care concerns worldwide, 4
Samii A. Superselective fibrinolysis in central retinal artery occlusion, 301-rc
Samii M. Primary cavernous sinus malignant lymphoma treated by gamma knife rediosurgery: case report and review of the literature, 279-com
Samson D
EC-IC bypass 10 years later: is it valuable?, 418
See Horowitz M
See Kopitnik TA Jr
Sanberg PR. *See* Borlongan CV
Sanchez PC. How neurotrophic factors protect brain against excitotoxicity, 153
Sano T. *See* Nishioka H
Sasaki J. *See* Koyama S
Sasaki T
See Kodama N
See Nakatomi H
Sato M. *See* Kodama N
Satoh T. *See* Sagoh M
Sawaya R. *See* Gokaslan Z
Scarfò, GB, Muzii VF, Mariottini A, Bolognini A, Cartolari R. Posterior retroextramarginal disc hernia (PREMDH): definition, diagnosis, and treatment, 205
Schievink W, Piepgras DG. Systemic multiple aneurysms of the intracranial arteries and visceral arteries: case report, 262-com
Scogna A. *See* Fernandez E
Scott RM. How would you treat this patient?, 23
Sekhar LN. Cerebellopontine-angle lesion, 156
Seltzer WK. *See* Brega KE
Seyfried DM. *See* Malik GM
Sherburn EW, Silbergeld DL. A new method of acrylic cranioplasty, 292
Shiga H. *See* Sagoh M
Shiino A. *See* Kimura R
Shillito J Jr. Pediatric lumbar disc surgery: 20 patients under 15 years of age, 14
Shima K. *See* Yanagawa Y
Shimizu H. *See* Imaizumi S
Siegfried J. Microvascular decompression for trigeminal neuralgia in patients with multiple sclerosis, 361-com
Silbergeld DL. *See* Sherburn EW

Sonntag VKH. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 533-com
Sörensen N. Pediatric lumbar disc surgery: 20 patients under 15 years of age, 18-com
Sotelo J. Update: the new ventriculoperitoneal shunt at the Institute of Neurology of Mexico, 19
Sotrel A. *See* Gonzales-Portillo G
Spanu G. *See* Gaetani P
Spetzler RF
See Holland MC
See Lawton MT
See Robinson JR Jr
See Rothbart D
Stein BM
Microsurgical resection of colloid cysts using a stereotactic transventricular approach, 492-com
Temporal lobe arteriovenous malformations: surgical management and outcome, 115-com
See Connolly ES Jr
Sutherland GR. *See* Auer RN
Suzuki M
Cavernous sinus meningiomas, 192-le
Surgery for cavernous sinus meningiomas, 604-le
Swartz BE, Rich JR, Dwan PS, DeSalles A, Kaufman MH, Walsh GO, Delgado-Escueta AV. The safety and efficacy of chronically implanted subdural electrodes: a prospective study, 87
Sypert GW. Posterior retroextramarginal disc hernia (PREMDH): definition, diagnosis, and treatment, 211-com

T
Tajima M. *See* Imaizumi S
Takagi T. *See* Fuse T
Takaku A. *See* Endo S
Takiguchi H. *See* Yanagawa Y
Tamai S. *See* Yanagawa Y
Tamura M. *See* Ono N
Tancioni F. *See* Gaetani P
Tasker RR. Cyclosporine-A increases locomotor activity in rats with 6-hydroxydopamine-induced hemiparkinsonism: relevance to neural transplantation, 388-com
Tekkök IH, Acilgöz B. Subgaleal preservation of calvarial flaps, 193-le
Terahata S. *See* Yanagawa Y
Tew JM Jr. The need for neurological surgery programs to be departments, 177-com
Tibbs PA. *See* Hatton J
Tobias E. Eli's Pearls, 595-rc, 395-rc
Tobias E. Eli's pearls, 96-rc, 158-rc, 515-rc
Tobias E. Eli's pearl's, 302
Todini AR. *See* D'Andrea V
Tominaga S. *See* Yoshioka N
Toole JF. EC-IC bypass 10 years later: is it valuable?, 417
Toselli R. *See* Popp AJ
Toth C. *See* Kumar K
Touho H, Karasawa J
Evaluation of time-dependent thresholds of cerebral blood flow and transit time during the acute stage of cerebral embolism: a retrospective study, 135
Ohnishi H, Ueda S. Selective angiography of the vertebral artery in the rabbit: technical note, 84
Tulleken CAF
Cerebral revascularization using omentum and serratus anterior muscle free flap transfer for adult moyamoya disease: case report, 435-com
Verdaasdonk RM, Beck RJM, Mali WPThM. The modified excimer laser-assisted high-flow bypass operation, 424
Tyson GW
Competition in neurosurgery: part I, 516
Competition in neurosurgery—Part II, 599
A profession in retreat, 400

U
Ueda S. *See* Touho H
Uede T. *See* Kurokawa Y
Uozumi T. *See* Pant B

V
Vacca DF. Epidural steroids for cervical and lumbar radiculopathy, 457
Valavanis A
Three cases of spontaneous direct carotid cavernous fistulas associated with Ehlers-Danlos syndrome type IV, 252-com
Transverse sinus dural fistula: combined surgical and endovascular approach: a case report, 134-com
Van Calenbergh F. *See* Van Havenbergh T
Van Havenbergh T, Robberecht W, Wilms G, Van Calenbergh F, Goffin J, Dom R, Bouillon R, Plets C. Lymphocytic infundibulohypophysitis presenting in the postpartum period: case report, 280
Varela ML. Advice to young neurosurgeons, 159
Velardi F. Craniosynostosis in neural tube defects: a theory on its pathogenesis, 470-com
Verdaasdonk RM. *See* Tulleken CAF
Villani L. *See* Gaetani P
Vince GH. *See* Goldbrunner R
Vital C. *See* Cuny E

W
Walsh GO. *See* Swartz BE
Wanibuchi M. *See* Kurokawa Y
Warmuth-Metz M. *See* Goldbrunner R
Weidner A. Spinal chondroma of the lumbar tract: case report, 539-com
Weinstein PR. *See* Chileuitt L
Weir B
Selective angiography of the vertebral artery in the rabbit: technical note, 86-com
Spontaneous dissecting aneurysm of the anterior cerebral artery: report of two cases, 61-com
Weir BK. The need for neurological surgery programs to be departments, 179-com
Wilms G. *See* Van Havenbergh T
Wilson CB
Cavernous sinus meningiomas, 192-le
Retirement: what to do?, 591

Winfree CJ. *See* Connolly ES Jr
Wirth FP. A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 530-com
Wissinger JP
Epidural steroids for cervical and lumbar radiculopathy, 457
A long-term outcome study of 170 surgicallly treated patients with compressive cervical radiculopathy, 532-com
A new method of acrylic cranioplasty, 294-com
Wong LKS. *See* Hsiang JNK
Wyler AR. Surgical treatment of epilepsy: the problem of lesion/focus incongruence, 586-com

X

Xu Q-W, Bao W-M, Mao R-L, Yang G-Y. Aggressive surgery for intramedullary tumor of cervical spinal cord, 322

Y

Yake RF. *See* Goodman JM
Yaki RF. Acute spontaneous spinal epidural hematoma: the influence of magnetic resonance imaging on diagnosis and treatment, 394-com
Yamada K. *See* Fuse T
Yamashita H. *See* Kato S
Yamashita J. *See* Okada T
Yamasita T. *See* Kato S
Yanagawa Y, Miyazawa T, Ishihara S, Takiguchi H, Shima K, Terahata S, Tamai S, Chigasaki H. Pontine glioma with osteoblastic skeletal metastases in a child, 481
Yang G-Y. *See* Xu Q-W
Yonas H
EC-IC bypass 10 years later: is it valuable?, 422
Evaluation of time-dependent thresholds of cerebral blood flow and transit time during the acute stage of cerebral embolism: a retrospective study, 146-com
Yonekawa Y
EC-IC bypass 10 years later: is it valuable?, 420
See Ogata N
Yoshimoto T
Induced hypertension during ischemia reduces infarct area after temporary middle cerebral artery occlusion in rats, 234-com
See Imaizumi S
See Mizoi K
Yoshioka N, Tominaga S, Inui T. Cerebral revascularization using omentum and serratus anterior muscle free flap transfer for adult moyamoya disease: case report, 430
Young B. *See* Hatton J

Z

Zama A. *See* Ono N
Zeidman SM. *See* Miller NR
Zhu XL. *See* Hsiang JNK

ELSEVIER

SUBJECT INDEX

A

A1 segment, giant aneurysm of, 553
Acquired immunodeficiency syndrome (AIDS), cerebral aneurysm in, 49
Acrylic, cranioplasty techniques, new method of, 292
Adenoma, pituitary, asymptomatic, discovered at autopsy, 28
Africa, *See also* South Africa
  a place for neurosurgery in, 403-ed
AIDS, *See* Acquired immunodeficiency syndrome
American Medical Association (AMA), 186
4-Aminopyridine, effects in compressive spinal cord injury, 350
Amphetamine-induced rotational behavior in in cyclosporine-A treated rats, 384
Amyloid angiopathy-related cerebellar hemorrhage, 235
Anastomosis, excimer laser-assisted, 424
Ancrod, for acute stroke, 446
Aneurysm
  cerebral, *See* Cerebral aneurysm
  cirsoid, treated by percutaneous injection of sodium tetradecyl sulfate, 557
  dissecting, spontaneous, of anterior cerebral artery, 55
  distal posterior inferior cerebellar artery, CT angiographic-guided frameless stereotactic-assisted clipping of, 450
  giant
    of anterior cerebral artery, 553
    intracranial, in two sisters, 240
  intracavernous carotid artery, angiographic dural waisting, 549
  ruptured cavernous, 247
  systemic multiple, of intracranial arteries and visceral arteries, 258
Angiography
  cerebral, of spontaneous dissecting aneurysm of anterior cerebral artery, 55
  CT, stereotactic-assisted clipping of a distal posterior inferior cerebellar artery aneurysm, 450
  of dural waisting of intracavernous carotid artery aneurysm, 549
  of large diffuse arteriovenous malformation affecting right cerebral and cerebellar hemispheres, 122
  selective, of vertebral artery in the rabbit, 84
  workup of a carotid cavernous fistula, 193-le
Angioma, cavernous, of cerebellopontine angle, 475
Anterior cerebral artery, spontaneous dissecting aneurysm of, 55
Antiplatelet agents, for acute stroke, 446
Arachnoid cyst, interhemispheric, surgical treatment of, 212
Arnold-Chiari syndrome, lumbosacral dysraphism in, 595-rc
Arteriogram, cerebral, carotid sinus needle stab in, damage from, 80
Arteriovenous malformations
  brain, radiosurgery patterns, 605-le
  cerebral, complication of embolization in, free segment of microcatheter in anterior circulation as, microsurgical removal of, 562
  cryptic, located at upper ventral pons, removal, via subtemporal transtentorial approach, 116
  large diffuse, affecting right cerebral and cerebellar hemispheres, 122
  scalp, cirsoid aneurysm, 557
  temporal lobe, surgical management and outcome, 106
Atrial natriuretic factor, pathogenesis of hyponatremia following subarachnoid hemorrhage due to ruptured cerebral aneurysm and, 500
Autopsy, asymptomatic pituitary adenoma discovered at, 28

B

Balloon occlusion, endovascular, in transverse sinus dural fistula, 129
Behavior tests, for effect of taxol, methylprednisolone, and 4-aminopyridine in compressive spinal cord injury, 350
Biopsy needle, brain, AD-Tech disposable, 597
Blood flow, cerebral, *See* Cerebral blood flow
Bone flap, calvarial, subgaleal preservation of, 192-le
BOOK REVIEWS
  Atlas of Human Cross-Sectional Anatomy, 3RD ED., 194
  Atlas of Spine Surgery, 194
  Color Atlas of Pediatric Neurology, 195
  Current Techniques in Neurosurgery, 2ND Ed., 195
  Microsurgical Carotid Endarterectomy, 608
  Nerve Injuries, 104
  Pediatric Cerebrovascular Disorders, 2ND ED., 196
  Pediatric Trauma: Initial Care of the Injured Child, 197
Brain
  arteriovenous malformation, radiosurgery patterns, 605-le
  expansion, in chronic subdural hematoma, subdural-peritoneal shunt for, 378
  oxygen pressure, carbon dioxide pressure, and pH during hypothermic circulatory arrest, 75
  protection against excitotoxicity, by neurotrophic factors, 152
  tumors, *See also* specific type of tumor
    in children, epilepsy related to, 21-en

0090-3019/96/$15.00
PII S0090-3019(96)00503-3

© 1996 by Elsevier Science Inc.
655 Avenue of the Americas, New York, NY 10010

glioblastoma multiforme, extradural extension into oral cavity, 42
neurosurgical pioneers in Halle an der Salle, 161
pituitary adenoma, 28
small deep-seated, interstitial laser thermotherapy in treatment of, 568
T-cell lymphoma, primary Ki-1-positive, 37
Brain stem, ventral portions, cryptic, arteriovenous malformations located at, 116
Brazil, health care concerns, 4
Business model, neurosurgery, 304-ed

C
Calcification on MRI, paradoxic appearance on, 513
Calcitonin gene-related peptide, effect on delayed cerebral vasospasm after experimental subarachnoid hemorrhage in rabbits, 263
Callosal agenesis, in interhemispheric arachnoid cyst, 212
Calvarial bone flap, subgaleal preservation of, 192-le
Canadian physician strike, 191-le
Carbon dioxide pressure, brain, during hypothermic circulatory arrest, 75
Cardiac arrest, from needle stabs in carotid sinus vicinity, 80
Carnioplasty, acrylic, new method of, 292
Carotid artery
cervical internal, nearly or completed occluded lesions of, acute pathologic features with angiographic correlates of, 222
intracavernous, aneurysms, angiographic dural waisting, 549
Carotid cavernous fistula
angiographic workup of, 193-le
spontaneous direct, associated with Ehlers-Danlos syndrome Type IV, 247
Carotid endarterectomy
indications for, 540, 608 en
practice, building of, DEC (Harbaugh)
Carotid sinus, damage to, from needle stabs, 80
Cartilage tumor, chondroma of lumbar tract, 534
Catheter, *See also* Microcatheter
peritoneal, invasion into the inferior vena cava, 21
Cavernous angioma, of cerebellopontine angle, 475
Cavernous sinus
malignant lymphoma primary, treated by gamma knife radiosurgery, 272
meningioma, 191-le
surgery for, 604-le
CD 30 antigen-positive T-cell lymphoma, 37
Central cord syndrome, cervical, 606-le
Central pontine myelinolysis (CPM), after surgical removal of pituitary tumor, 32
Central retinal artery occlusion, superselective fibrinolysis in, 301-rc
Central sulcus, localization of, 97-rc
Cephaloceles, in craniosynostosis, 465
Cerebellar artery, distal posterior inferior, aneurysm of, CT angiographic-guided frameless stereotactic-assisted clipping of, 450
Cerebellar hemorrhage, amyloid angiopathy-related, 235
Cerebellar peduncle, squamous cell carcinoma of, 477
Cerebellopontine angle
cystic extra-axial cavernoma of, 475
lesion, 154
Cerebral aneurysm
in HIV patient, 49
ruptured
in moyamoya disease, treatment of, 62
subarachnoid hemorrhage due to, pathogenesis of hyponatremia following, 500
type III collagen in, genotypic variations of, 253
Cerebral arteriovenous malformation, complication of embolization in, free segment of microcatheter in anterior circulation as, microsurgical removal of, 562
Cerebral artery, anterior, giant aneurysm of, 553
Cerebral blood flow
in diffuse arteriovenous malformation affecting right cerebral cerebellar hemispheres, 122
quantitative local, xenon-enchanced computed tomography, 437
time-dependent thresholds of, during acute stage of cerebral embolism, evaluation of, 135
Cerebral infarction, in spontaneous dissecting aneurysm of anterior cerebral artery, 55
Cerebral ischemia
acute focal, in rats studied by diffusion-weighted magnetic resonance imaging, 67
in adult moyamoya disease, cerebral revascularization using omentum and serratus anterior muscle free flap transfer for, 430
oxygen pressure, carbon dioxide pressure, and pH changes during circulatory arrest, 75
reflections on 20 years experience with, 595-rc
Cerebral revascularization, using omentum and serratus anterior muscle free flap transfer, for adult moyamoya disease, 430
Cervical central cord syndrome, 606-le
Cervical internal carotid artery, nearly or completed occluded lesions of, acute pathologic features with angiographic correlates of, 222
Cervical radiculopathy, epidural steroids for, 455-en
Cervical spinal cord, intramedullary tumors of, aggressive surgery for, 322
Cervical spine, compressive radiculopathy, long-term outcome study of 170 surgical patients with, 523
Children, *See* Infants and children
Chinese, ethnic, putaminal and thalamic hemorrhage in, 441
Chondroma, of lumbar tract, 534
Circle of Willis, ruptured cerebral aneurysm in moyamoya disease from, 62
Cirsoid aneurysm treated by percutaneous injection of sodium tetradecyl sulfate, 557
Collagen, Type III, genotypic variations of, in patients with cerebral aneurysms, 253
Colloid cyst, microsurgical resection of, using stereotactic transventricular approach, 485
Competition in neurosurgery, 516, 599-ed
Computed tomographic angiography, stereotactic-assisted clipping of a distal posterior inferior cerebellar artery aneurysm, 450
Computed tomography
diffuse dural enhancement, 303
of ossification of ligamentum flavum with myelopathy, 396
of posterior retroextramarginal disc hernia, 205
xenon-enhanced, quantitative cerebral blood flow, 437

Congenital arachnoid cyst, surgical options in the treatment of, 212
Coronal suture, in craniosynostosis, 465
Corticosteroids, *See also* Steroids
in primary Ki-1-positive T-cell lymphoma of the brain, 37
Cranial defect, acrylic cranioplasty techniques in, 292
Craniopharyngioma, and suprasellar germ cell tumors, children with, comparison of, posttreament sequelae, 370
Craniosynostosis in neural tube defects, pathogenesis, 465
Craniotomy, history, neurosurgical pioneers in Halle an der Salle, 161
Cyclosporine-A, in neural transplantation, effect on locomotor activity in rats with 6-hydroxydopamine-induced hemiparkinsonism, 384
Cysts
arachnoid, interhemispheric, 212
colloid, microsurgical resection of, using stereotactic transventricular approach, 485
ependymal, intraventricular, presenting with psychosis, endoscopic resection of, 573

D

Department status, of neurological surgery, 172
Diabetes insipidus
central, in postpartum period, caused by lymphocytic infundibulohypophysitis, 280
lymphocytic hypophysitis presenting with, 285
Diffusion-weighted image, of acute focal cerebral ischemia in rats, 67
Disc hernia
posterior retroextramarginal, 205
recurrent, *vs.* scar, imaging of, 94
Dissecting aneurysm, spontaneous, of anterior cerebral artery, 55
DNA, in genotypic variations of Type III collagen in patients with cerebral aneurysms, 253
Dolichovertebral artery, trigeminal neuralgia caused by, 607
Dural arteriovenous fistula, transverse sinus, combined surgical and endovascular approach, 129
Dural enhancement, diffuse, 303
Dural substitute, porcine small intestine submucosa graft for, histology after, 389
Dural waisting, of intracavernous carotid artery aneurysm, angiography of, 549
Dysraphic theory, occult intrasacral meningocele associated with spina bifida and, 147
Dysraphism, lumbosacral, in Arnold-Chiari syndrome, 595-rc

E

Editorials
All it takes is a few minutes, 101
Competition in Neurosurgery—Part II, 599
Editor's notes, 19, 23, 455
Indications for carotid endarterectomy, 540
Surgical Neurology on the Internet, 520
In this issue, 1, 105, 203, 309, 415
A place for neurosurgery in a developing country, 403
A strategy for your future, 304
Ehlers-Danlos syndrome Type IV, spontaneous direct carotid cavernous fistulas associated with, 247
Electrodes, subdural, chronically implanted, safety and efficacy of, 87
Electroencephalogram, subdural, safety and efficacy of electrodes, 87
Embolism, cerebral, acute stage of, time-dependent thresholds of cerebral blood flow and transient time during, evaluation of, 135
Embolization
of cirsoid aneurysm, 557
complication of, free segment of microcatheter in anterior circulation as, microsurgical removal of, 562
Encephalocele, in craniosynostosis, 465
Encephalopathies
following heart-lung transplantation, 157
transmissible spongiform, 587
Endarterectomy, carotid, indications for, 540, 608-en
Endocrinopathy, in children with suprasellar germ cell tumors and craniopharyngioma, comparison of, 370
Endoscopic resection of intraventricular ependymal cyst presenting with psychosis, 573
Endovascular balloon occlusion, in transverse sinus dural fistula, 129
Ependymal cyst, intraventricular, presenting with psychosis, endoscopic resection of, 573
Epidural hematoma, acute spontaneous, influence of magnetic resonance imaging on diagnosis and treatment, 345
Epidural non-Hodgkin's lymphoma, primary, 339
Epilepsy
brain tumor-related, in children, 21-en
chronically implanted subdural electrodes in, safety and efficacy of, 87
surgical treatment of, lesion/focus incongruence in, 579
Excitotoxicity, protection of brain against, by neurotrophic factors, 152
Extracranial metastases, of pontine glioma in a child, 481
Extracranial-intracranial (EC-IC) bypass
modified excimer laser-assisted, 424
value of, 416
Extradural extension, of glioblastoma multiforme into oral cavity, 42
Extradural space, primary non-Hodgkin's lymphoma, 339
Extrapontine myelinolysis (EPM), after surgical removal of pituitary tumor, 32

F

Familial intracranial aneurysm, giant in two sisters, 240
Fibrinolysis superselective, in central retinal artery occlusion, 301-rc
Fistula
carotid cavernous, 193-le, 247
dural arteriovenous, transverse sinus, combined surgical and endovascular approach, 129
Flap, free, serratus anterior muscle, cerebral revascularization using, for adult moyamoya disease, 430

Focus/lesion incongruity, in surgical treatment of epilepsy, 579
Future, strategy for, 304-ed

G
Gamma knife radiosurgery, primary cavernous sinus malignant lymphoma treated by, 272
Gastrointestinal bleeding, stress ulcers at risk for, prophylaxis, in neurosurgical intensive care unit, 493
Genetic markers, in genotypic variations of Type III collagen in patients with cerebral aneurysms, 253
Genetics, transmissible spongiform encephalopathies, 587
Genotype, variations, of Type III collagen in patients with cerebral aneurysms, 253
Germ cell tumors, suprasellar, and craniopharyngioma, children with, comparison of, posttreament sequelae, 370
Glial fibrillary acidic protein (GFAP), in osteoblastic metastasis of pontine glioma in a child, 481
Glioblastoma multiforme, extradural extension of, into the oral cavity, 42
Glioma, pontine, with osteoblastic skeletal metastases in a child, 481
Gloving, changing to left hand first, 515
Great Britain, problems facing neurosurgery in, 519

H
Hair braiding closure, for superficial wounds, 150
Head trauma, superficial wounds, hair braiding closure for, 150
Health care concerns, worldwide, 2, 101-ed
Health care industry, transformations in, effect on neurosurgery profession, 398
Heart-lung transplantation, encephalopathy following, 157
Hematoma, spinal epidural, spontaneous, acute, influence of magnetic resonance imaging on diagnosis and treatment, 345
Hemorrhage
  gastrointestinal, stress ulcers at risk for, prophylaxis, in neurosurgical intensive care unit, 493
  intracranial
    cerebellar, amyloid angiopathy-related, 235
    intraplaque, 222
    pontine, in cryptic arteriovenous malformation, 116
    putaminal and thalamic, in ethnic Chinese, 441
    subarachnoid, *See* Subarachnoid hemorrhage
    in temporal lobe arteriovenous malformation, 106
Heparin, for acute stroke, 446
Hernia, disc
  posterior retroextramarginal, 205
  recurrent, *vs.* scar, imaging of, 94
H_2-receptor antagonists, for stress ulcer prophylaxis in neurosurgical intensive care unit, 493
Hungary, problems facing neurosurgery in, 519
Hydrocephalus, 19-en
  ventriculoperitoneal shunt for, new, 19
Hydrogen ion, changes, during hypothermic circulatory arrest, 75
6-hydroxydopamine-induced hemiparkinsonism, cyclosporine-A effects on locomotor activity in rats with, relevance to neural transplantation, 384
Hypertension, induced during ischemia, reduces infarct area after temporary middle cerebral artery occlusion in rats, 229
Hyponatremia
  central pontine myelinolysis after surgical removal of a pituitary tumor associated with, 32
  following subarachnoid hemorrhage due to ruptured cerebral aneurysm, pathogenesis of, 500
Hypotension, intracranial, spontaneous, diffuse dural enhancement in, 303
Hypothermia, brain tissue oxygen pressure, carbon dioxide pressure, and pH during, 75

I
Immunosuppression, with cyclosporine-A, in neural transplantation, effect on locomotor activity in rats with 6-hydroxydopamine-induced hemiparkinsonism, 384
Inappropriate ADH syndrome, pathogenesis of hyponatremia following subarachnoid hemorrhage due to ruptured cerebral aneurysm and, 500
India, health care concerns, 2, 4
Infants and children
  brain tumors in, epilepsy related to, 21-en
  craniosynostosis in neural tube defects in, 465
  pontine glioma with osteoblastic skeletal metastases in, 48a
  with suprasellar germ cell tumors and craniopharyngioma, comparison of, posttreament sequelae, 370
  surgical options in treatment of interhemispheric arachnoid cyst, 212
  under 15 years of age, lumbar disc surgery, 14
Infection, HIV, cerebral aneurysm in, 49
Inferior vena cava, invasion of peritoneal catheter into, 21
Infundibuloneurohypophysitis, lymphocytic, 280, 285
Intensive care unit, neurosurgical, step-wise protocol for stress ulcer prophylaxis in, 493
Interhemispheric fissure, arachnoid cyst located within, surgical treatment of, 212
International Society of Neurosurgical Instrument Inventors, First Meeting of, 401
Internet, *Surgical Neurology* on, 520-en
Intracranial artery aneurysms, systemic multiple, 258
Intracranmial hemorrhage, *See* Hemorrhage, intracranial
Intramedullary tumors, spinal cord
  aggressive surgery for, 322
  metastatic, 329
  radical resection of, without Cavitron ultrasonic aspirator or CO_2 laser, 310
Intrasacral meningocele, occult, associated with spina bifida, 147
Ischemia
  cerebral, *See* Cerebral ischemia
  hypertension induced during, reduction of infarct area after temporary middle cerebral artery occlusion in rats, 229

J
Japan Neurological Society, 54th Annual Meeting of, 295

K
Ki-1-positive T-cell lymphoma, 37

L
Laminectomy, decompressive, for acute spontaneous spinal epidural hematoma, 345
Laser
excimer-assisted high-flow bypass operations, 424
surgery, for intraspinal meningiomas, 458
thermotherapy, interstitial, in treatment of deep-seated brain tumors, 568
Lesion/focus incongruity, in surgical treatment of epilepsy, 579
Ligamentum flavum, ossification of, myelopathy from, imaging of, 396
Lower extremities, lesion of central nervous system pyramidal tract manifestations limited to, 302-rc
Lumbar disc surgery, pediatric, 14
Lumbar radiculopathy, epidural steroids for, 455-en
Lumbar spine, posterior retroextramarginal disc hernia, 205
Lumbar tract, chondroma of, 534
Lumbosacral dysraphism, in Arnold-Chiari syndrome, 595-rc
Lymphocytic infundibuloneurohypophysitis
presenting in postpartum period, 280
variant of, lymphocytic hypophysitis presenting with diabetes insipidus as, 285
Lymphoma
non-Hodgkin's, primary spinal epidural, 339
primary malignant, cavernous sinus, treated by gamma knife radiosurgery, 272
T-cell, primary Ki-1-positive, of brain, 37

M
Magnetic resonance imaging
of acute spontaneous spinal epidural hematoma, influence on diagnosis and treatment, 345
of cystic extra-axial cavernoma of cerebellopontine angle, 475
diffuse dural enhancement, 303
diffusion-weighted, acute focal cerebral ischemia in rats studied by, 67
of ossification of ligamentum flavum with myelopathy, 396
paradoxic appearance of calcification on, 513
of posterior retroextramarginal disc hernia, 205
postoperative, of recurrent disc herniation *vs.* scar, 94
Manuscript, how to write, 169
Medial rectus paralysis, 515-rc
Median nerve, lesion, identification of, 158-rc
Medullary venous malformation, affecting right cerebral and cerebellar hemispheres, 122
Meningioma
cavernous sinus, 191-le
malignant lymphoma diagnosed as, 272
surgery for, 604
intracranial, pneumosinus dilatans and, 471
intraspinal, poor prognosis factors and modern therapeutic management, 458
Meningocele, occult intrasacral, associated with spina bifida, 147
Metastatic tumors, intramedullary spinal cord, 329
Methyl methacrylate, cranioplasty technique, 292
Methylprednisolone, effects in compressive spinal cord injury, 350
Microcatheter, free segment of, in anterior circulation, as complication of embolization, microsurgical removal of, 562
Microneurosurgery, for temporal lobe arteriovenous malformations, 106
Microsurgery
removal of free segment of microcatheter in anterior circulation as complication of embolization, 562
resection of colloid cyst using a stereotactic transventricular approach, 485
Motor asymmetry, in cyclosporine-A-treated rats with 6-hydroxydopamine-induced hemiparkinsonism, relevance to neural transplantation, 384
Moyamoya disease
adult, cerebral revascularization using omentum and serratus anterior muscle free flap transfer for, 430
ruptured cerebral aneurysm in, treatment of, 62
Multiple sclerosis
internuclear ophthalmoplegia in, 515-rc
trigeminal neuralgia in, microvascular decompression for, 358
Myelinolysis, central pontine, after surgical removal of pituitary tumor, 32
Myelomeningocele, in craniosynostosis, 465
Myelopathy, ossification of ligamentum flavum with, imaging of, 396

N
Needle
brain biopsy, AD-Tech disposable, 597
carotid sinus injury and, 80
Netherlands, problems facing neurosurgery in, 519
Neural transplantation, in Parkinson's disease, cyclosporine-A in, locomotor activity in rats effects, 384
Neural tube defects, craniosynostosis in, 465
Neuralgia, trigeminal, *See* Trigeminal neuralgia
Neuroradiology, of large diffuse arteriovenous malformation affecting right cerebral and cerebellar hemispheres, 122
Neurosurgeons
healthcare reform effects on, 398
population of, 10
spine surgery by, 103-le
strategy for future, 304-ed
young, advice to, 159-rc
Neurosurgery, *See also* Microneurosurgery
analogy to business model, 304-ed
competition in, 599-ed, 516
department status, 172
in a developing country, 403-ed
history, neurosurgical pioneers in Halle an der Salle, 161
of the peripheral nervous system, basic anatomic concepts, 47
practice of, 186
problems facing, international, 519
workforce requirements for, 181
in Zimbabwe, 317
Neurosurgical practice, carotid endarterectomy, developing of, 545
Neurosurgical Society of America, 48th Annual Meeting, 509

Neurotrophic factors, protection of brain against excitotoxicity, 152
News Notes, 200

O
Obesity, in children with suprasellar germ cell tumors and craniopharyngioma, comparison of, 370
Occult intrasacral meningocele, associated with spina bifida, 147
Omentum, cerebral revascularization using, for adult moyamoya disease, 430
Ondine's curse, 96-rc
Oral cavity, extradural extension of glioblastoma multiforme into, 42
Ossification of the ligamentum flavum with myelopathy, 396
Osteoblastic metastasis of pontine glioma, 481
Oximetry, transcranial cerebral, in transverse sinus dural fistula, 129
Oxygen pressure, brain, during hypothermic circulatory arrest, 75

P
Pain, chronic, in peripheral neuropathy, spinal cord stimulation for, 363
Pakistan, health care concerns, 3
Paranasal sinuses, pneumosinus dilatans in, intracranial meningioma and, 471
Parkinson's disease, neural transplantation in, cyclosporine-A for, effects on locomotor activity in rats with 6-hydroxydopamine-induced hemiparkinsonism, 384
Parkinson's syndrome, central pontine myelinolysis associated with, 32
Peripheral nervous system, neurosurgery of, basic anatomic concepts, 47
Peripheral neuropathy, chronic pain in, spinal cord stimulation for, 363
Peritoneal catheter, invasion into the inferior vena cava, 21
pH, brain, during hypothermic circulatory arrest, 75
Pituitary gland
  inflammatory lesions, of, presenting with diabetes insipidus, 285
  tumors
    adenoma, *See* Adenoma, pituitary
    surgical removal of, central pontine myelinolysis after, 32
Pneumonia, gastric acid suppression and, 493
Pneumosinus dilatans, intracranial meningioma and, 471
Pons
  glioma, with osteoblastic skeletal metastases in a child, 481
  squamous cell carcinoma invading, 477
  ventral cryptic arteriovenous malformations, removal via subtemporal transtentorial approach, 116
Postpartum period, lymphocytic infundibulohypophysitis presenting in, 280
Practice development, carotid endarterectomy, 545
Prolo scale, for long term study of surgically treated patients with compressive cervical radiculopathy, 523
Psychosis, intraventricular ependymal cyst presenting with, endoscopic resection of, 573
Putaminal hemorrhage, in ethnic Chinese, 441
Pyramidal tract, manifestations of lesions in central nervous systems in, 302-rc

R
Rabbit
  subarachnoid hemorrhage in, effect of calcitonin gene-related peptide on delayed cerebral vasospasm after, 263
  vertebral artery, selective angiography of, 84
Radial nerve, lesion, identification of, 158-rc
Radiation therapy, for intraspinal meningiomas, 458
Radiculopathy
  cervical and lumbar, epidural steroids for, 455-en
  compressive cervical, long-term outcome study of 170 surgical patients with, 523
Radiology, *See* Neuroradiology
Radiosurgery
  gamma knife, primary cavernous sinus malignant lymphoma treated by, 272
  patterns of practice, 605
Rat
  acute focal cerebral ischemia in, 67
  temporary middle cerebral artery occlusion in, infarct area after, induced hypertension during ischemia reduction of, 229
Reader's comments
  Angiographic workup of a CCF, 193
  Cavernous sinus meningioma, 191
  Cervical central cord syndrome, 606
  Have neurosurgeons lost their chance to operate on spine problems, 103
  Radiosurgery patterns of practice, 605
  Subgaleal preservation of calvarial flaps, 192
  Surgery for cavernous sinus meningiomas, 604
  "The strike that failed"* Canadian physician strike, 191
  Trigeminal neuralgia caused by dolichovertebral artery, 607
Recanalization, in acute stage of cerebral embolism, 135
Resection, surgical, of intramedullary spinal cord tumors, without Cavitron ultrasonic aspirator or CO_2 laser, 310
Resident's corner
  Advice to young neurosurgeons, 159
  Eli's pearls, 595, 96, 158, 302, 395, 515
  localization of the central sulcus, 97
  Reflections on 20 years experience with cerebral ischemia, 595
  Superselective fibrinolysis in central retinal artery occlusion, 301
Retinal artery, central, occlusion, superselective fibrinolysis in, 301-rc
Retirement: what to do (point of view), 591, 100, 160
Revascularization, cerebral, using omentum and serratus anterior muscle free flap transfer, for adult moyamoya disease, 430
Right cerebral and cerebellar hemispheres, large diffuse arteriovenous malformation affecting, 122
Russia, problems facing neurosurgery in, 519

S
Scalp
arteriovenous malformation, cirsoid aneurysm, 557
wound superficial, hair braiding closure for, 150
Seizures, *See* Epilepsy
Serratus anterior muscle free flap, cerebral revascularization using, for adult moyamoya disease, 430
Shunt
for hydrocephalus
ventriculoperitoneal, new, at the Institute of Neurology of Mexico, update on, 19
subdural peritoneal, for bilateral chronic subdural hematoma, 378
Siblings, giant intracranial aneurysms in, 240
Sinonasal mass with intracranial extension, imaging of, 593
Skull defect, acrylic cranioplasty for, 292
Sleep apnea, 96-rc
Small intestine submucosa, dural grafting with, histology after, 389
Socioeconomic issues
competition in neurosurgery: Part I, 516
A profession in retreat, 398
Sodium tetradecyl sulfate, percutaneous injection of, cirsoid aneurysm treated by, 557
Somatosensory evoked potentials, effect of taxol, methylprednisolone, and 4-aminopyridine in compressive spinal cord injury and, 350
South Africa, health care concerns, 7
Spain, problems facing neurosurgery in, 519
Spina bifida, occult intrasacral meningocele associated with, 147
Spinal cord
compression, in epidural non-Hodgkin's lymphoma, 339
injury, compressive, effects of taxol, methylprednisolone, and 4-aminopyridine in, 350
stimulation, for chronic pain in peripheral neuropathy, 363
tumors
chondroma, of lumbar tract, 534
intramedullary, 322, 329
meningioma, poor prognostic factors and modern therapeutic management, 458
Spinal epidural hematoma, acute spontaneous, influence of magnetic resonance imaging on diagnosis and treatment, 345
Spinal epidural non-Hodgkin's lymphoma, primary, 339
Spine surgery, by neurosurgeon, 103-le
Squamous cell carcinoma, intracranial, primary, invading brain stem, total removal of, 477
Stenosis, carotid bifurcation, carotid endarterectomy for, 540
Stereotactic resection, microsurgical, of colloid cyst, using transventricular approach, 485
Stereotaxis, frameless, clipping of a distal posterior inferior cerebellar artery aneurysm, 450
Steroids, *See also* Corticosteroids
epidural, for cervical and lumbar radiculopathy, 455-en
Stress ulcer prophylaxis, step-wise protocol for in neurosurgical intensive care unit, 493
Stroke
acute, therapies, 446
hemorrhagic, in ethnic Chinese, 441
Subarachnoid hemorrhage
cerebral aneurysm in HIV patient-related, 49
due to ruptured cerebral aneurysm, pathogenesis of hyponatremia following, 500
experimental, in rabbit, delayed cerebral vasospasm after, effect of calcitonin gene-related peptide on, 263
in ruptured cerebral aneurysm in moyamoya disease, 62
Subdural hematoma
chronic, subdural-peritoneal shunt for, 378
Subtemporal-transtentorial approach, removal of cryptic arteriovenous malformation located at upper ventral pons via, 116
Success, formula for, 602
Superior sagittal sinus, transverse sinus dural fistula draining into, 129
Suprasellar germ cell tumors and craniopharyngioma, children with, comparison of, posttreament sequelae, 370
Surgery, *See also* specific procedure; specific type of surgery
for cavernous sinus meningiomas, 604
epilepsy, chronically implanted subdural electrodes, safety and efficacy of, 87
for epilepsy, lesion/focus incongruence in, 579
for intramedullary tumor of cervical spinal cord, 322, 329
lumbar disc, pediatric, 14
spinal, for intraspinal meningioma, 458
spine, by neurosurgeon, 103-le
transsphenoidal, for lymphocytic adenohypophysitis, 285
Surgical Neurology
on the Internet, 520-en
In this issue, 1-ed, 105-ed, 203-ed, 309-ed, 415
Surgical resection, of intramedullary spinal cord tumors, without Cavitron ultrasonic aspirator or CO_2 laser, 310
Suture, in hair braiding closure for superficial wounds, 150

T
T-cell lymphoma, primary Ki-1-positive, of brain, 37
T_2-weighted image, of acute focal cerebral ischemia in rats, 67
Taxol, effects in compressive spinal cord injury, 350
Temporal lobe, arteriovenous malformations, surgical management and outcome, 106
Tethered cord syndrome, occult intrasacral meningocele associated with, 147
Thalamic hemorrhage, in ethnic Chinese, 441
Third ventricle, stereotactic approach, microsurgical resection of colloid cyst using, 485
Thrombolytic therapy, for acute stroke, 446
Thromboxane A_2 synthetase inhibitor, intraabdominal rupture and, 258
Thrombus, intraluminal, cervical internal carotid artery occlusion and, 222
Titanium plates, in acrylic cranioplasty, 292
Training, neurosurgical, 10, 172
Transient ischemic attack, diffuse artriovenous malformation and, 122

Transit time, during acute stage of cerebral embolism, evaluation of, 135
Transplantation
  heart-lung, encephalopathy following, 157
  neural, in Parkinson's disease, cyclosporine-A in, locomotor activity in rats effects, 384
Transverse sinus dural fistula, combined surgical and endovascular approach, 129
Trapping, of giant aneurysm of anterior cerebral artery, 553
Trigeminal ganglion, neurosurgical pioneers in Halle an der Salle, 161
Trigeminal nerve, squamous cell carcinoma invading, 477
Trigeminal neuralgia
  caused by dolichovertebral artery, 607
  in patients with multiple sclerosis, microvascular decompression for, 358

U
Ulnar nerve, testing of, 158-rc
Urokinase, in acute stage of cerebral embolism, 135

V
Vasospasm, cerebral, delayed, after experimental subarachnoid hemorrhage in rabbit, effect of calcitonin gene-related peptide on, 263
Venezuela, health care concerns, 5
Ventral pontine lesions, cryptic arteriovenous malformations, removal via subtemporal transtentorial approach, 116
Ventriculoperitoneal shunt, for hydrocephalus, new, at the Institute of Neurology of Mexico, update on, 19
Vertebral artery, rabbit, selective angiography of, 84
Vertebral ring apophysis, detachment of, 205
Visceral artery aneurysms, systemic multiple, 258
Vision, in children with suprasellar germ cell tumors and craniopharyngioma, comparison of, 370
Visual field defect, Willbrand's knee, 395-rc

W
Willbrand's knee, 395-rc
Workforce requirements for neurosurgery, 181
World Federation of Neurosurgical Societies Education Committee, news from, 408

X
Xenograft, porcine small intestinal submucosa, dural, histology after, 389
Xenon-enhanced computed tomography, quantitative cerebral blood flow, 437

Z
Zimbabwe, neurosurgery in, 317